

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/21834

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A01N 43/58, 43/50; A61K 31/495, 31/50; C07D 257/08, 257/12, 471/00, 487/00, 491/00, 495/00, 497/00, US CL : 514/249; 544/279, 350, 353, 354 According to International Patent Classification (IPC) or to both national classification and IPC																							
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 514/249; 544/279, 350, 353, 354 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched EAST: USPAT, USPG-PUB, EPO, JPO, DERWENT Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN: Structure searched in REGISTRY file, answer set crossed in CAPLUS file.																							
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X --- Y</td> <td>WO 99/42463 A1 (CARSON et al.) 26 August 1999 (26.08.1999), pages 43 and 44, pages 75-77.</td> <td>1, 2, 4 ----- 17, 18, 20, 22-25</td> </tr> <tr> <td>X</td> <td>STEVENS et al. Substituted Sulfaquinoxalines. I. The Isolation and Synthesis of 3-Hydroxy-2-sulfanilamidoquinoxalines and of Related Quinoxalines. Journal of the American Chemical Society. 1946, Vol. 68, pages 1035-1039, especially page 1037.</td> <td>1, 2, 4, 12, 13, 15</td> </tr> <tr> <td>X</td> <td>BERGSTROM et al. Cyclic Ammono Ketones and Acid Chlorides of the Quinoxaline Series. Journal of the American Chemical Society. 1931, Vol. 53, pages 1846-1853, especially page 1850,</td> <td>1, 2, 4, 12, 13, 15</td> </tr> <tr> <td>X</td> <td>FUSON et al. Acyloins from t-Butylglyoxal. Journal of the American Chemical Society. 1939, Vol. 61, pages 1937-1940, especially page 1939.</td> <td>1, 2, 4, 12, 13, 15</td> </tr> <tr> <td>X</td> <td>BENNETT et al. Steric Hindrance in Reactions of Substituted Quinoxalines. Journal of the Chemical Society. 1928, part 2, pages 1960-1975, especially page 1966.</td> <td>1, 2, 4, 12, 13, 15</td> </tr> <tr> <td>X</td> <td>MALKIN et al. Phenyl Benzyl Diketone and some Derivatives. Journal of the Chemical Society. 1925, Vol. 127, pages 369-377, especially page 373.</td> <td>1, 2, 4, 12, 13, 15</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X --- Y	WO 99/42463 A1 (CARSON et al.) 26 August 1999 (26.08.1999), pages 43 and 44, pages 75-77.	1, 2, 4 ----- 17, 18, 20, 22-25	X	STEVENS et al. Substituted Sulfaquinoxalines. I. The Isolation and Synthesis of 3-Hydroxy-2-sulfanilamidoquinoxalines and of Related Quinoxalines. Journal of the American Chemical Society. 1946, Vol. 68, pages 1035-1039, especially page 1037.	1, 2, 4, 12, 13, 15	X	BERGSTROM et al. Cyclic Ammono Ketones and Acid Chlorides of the Quinoxaline Series. Journal of the American Chemical Society. 1931, Vol. 53, pages 1846-1853, especially page 1850,	1, 2, 4, 12, 13, 15	X	FUSON et al. Acyloins from t-Butylglyoxal. Journal of the American Chemical Society. 1939, Vol. 61, pages 1937-1940, especially page 1939.	1, 2, 4, 12, 13, 15	X	BENNETT et al. Steric Hindrance in Reactions of Substituted Quinoxalines. Journal of the Chemical Society. 1928, part 2, pages 1960-1975, especially page 1966.	1, 2, 4, 12, 13, 15	X	MALKIN et al. Phenyl Benzyl Diketone and some Derivatives. Journal of the Chemical Society. 1925, Vol. 127, pages 369-377, especially page 373.	1, 2, 4, 12, 13, 15
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.																							
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Date of the actual completion of the international search 29 December 2004 (29.12.2004)		Date of mailing of the international search report 02 FEB 2005																					
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer <i>Zachary C. Tucker</i> Telephone No. 571-272-1600																					

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	BLACHE et al Heterocyclizations in the Pyrido[2,3-b]pyrazine Series. Journal of Heterocyclic Chemistry. 1994, Vol. 31, No. 1 , pages 161-166, especially page 163.	1, 2, 4, 6-9, 11